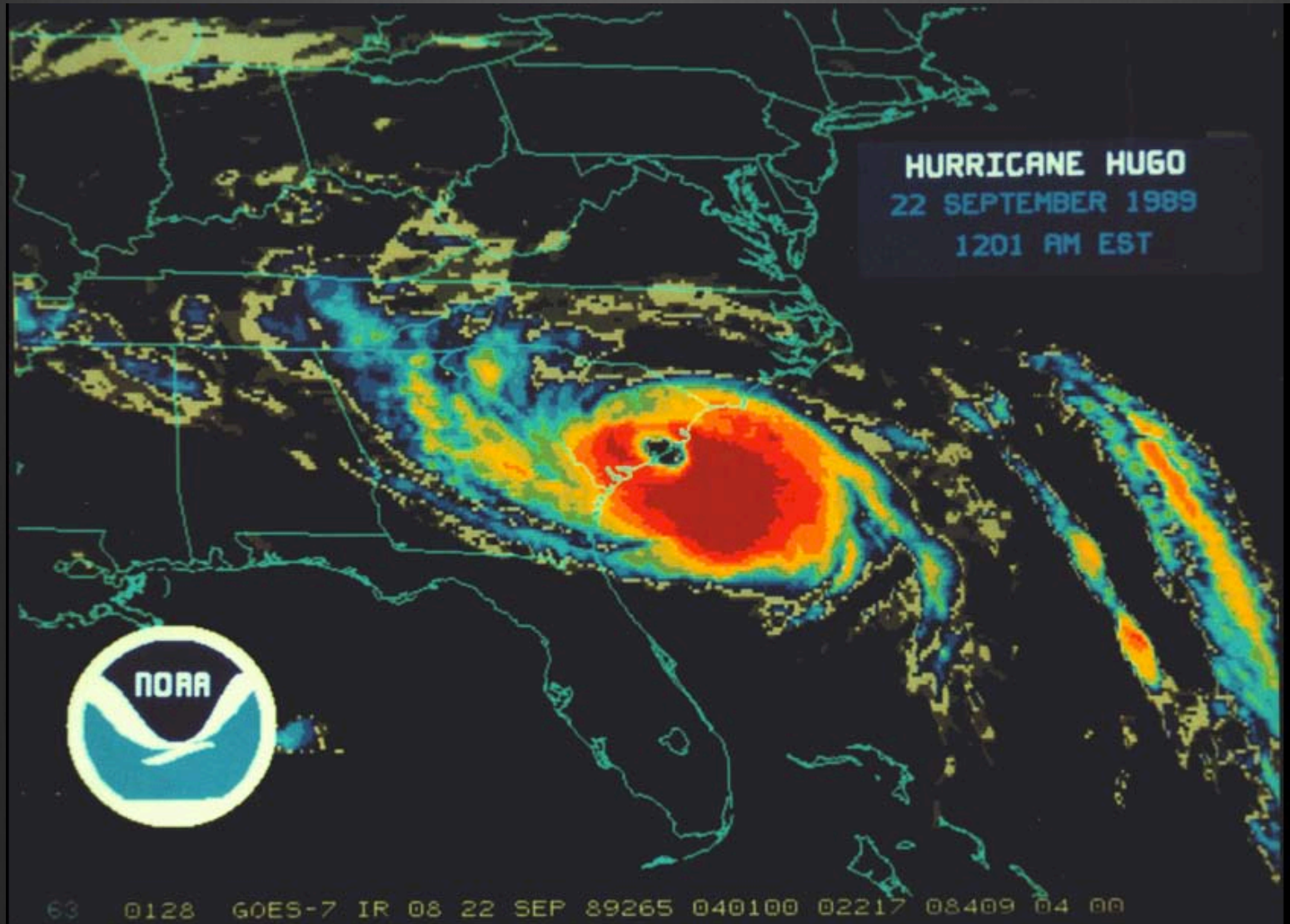
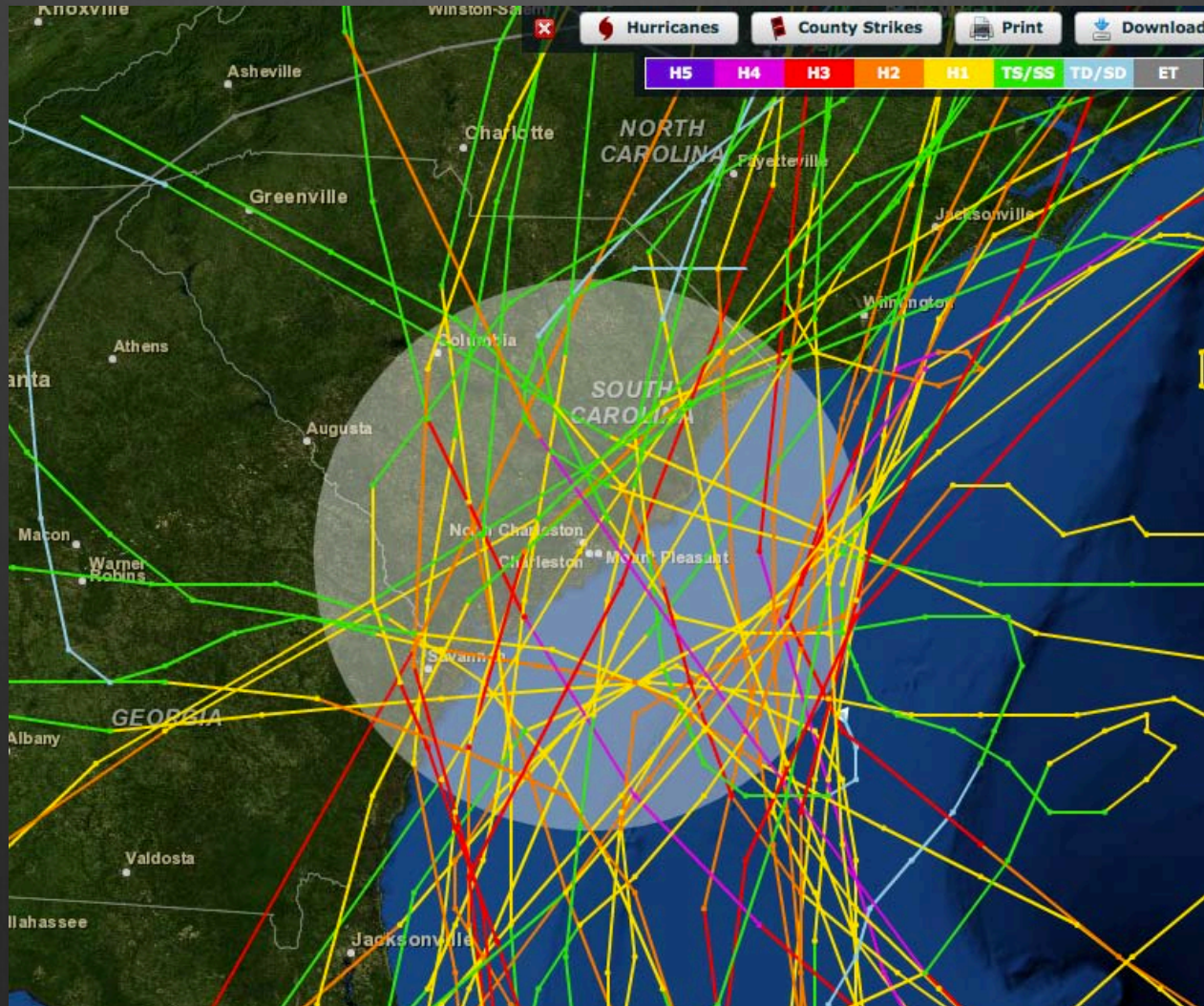


South Carolina Hurricanes

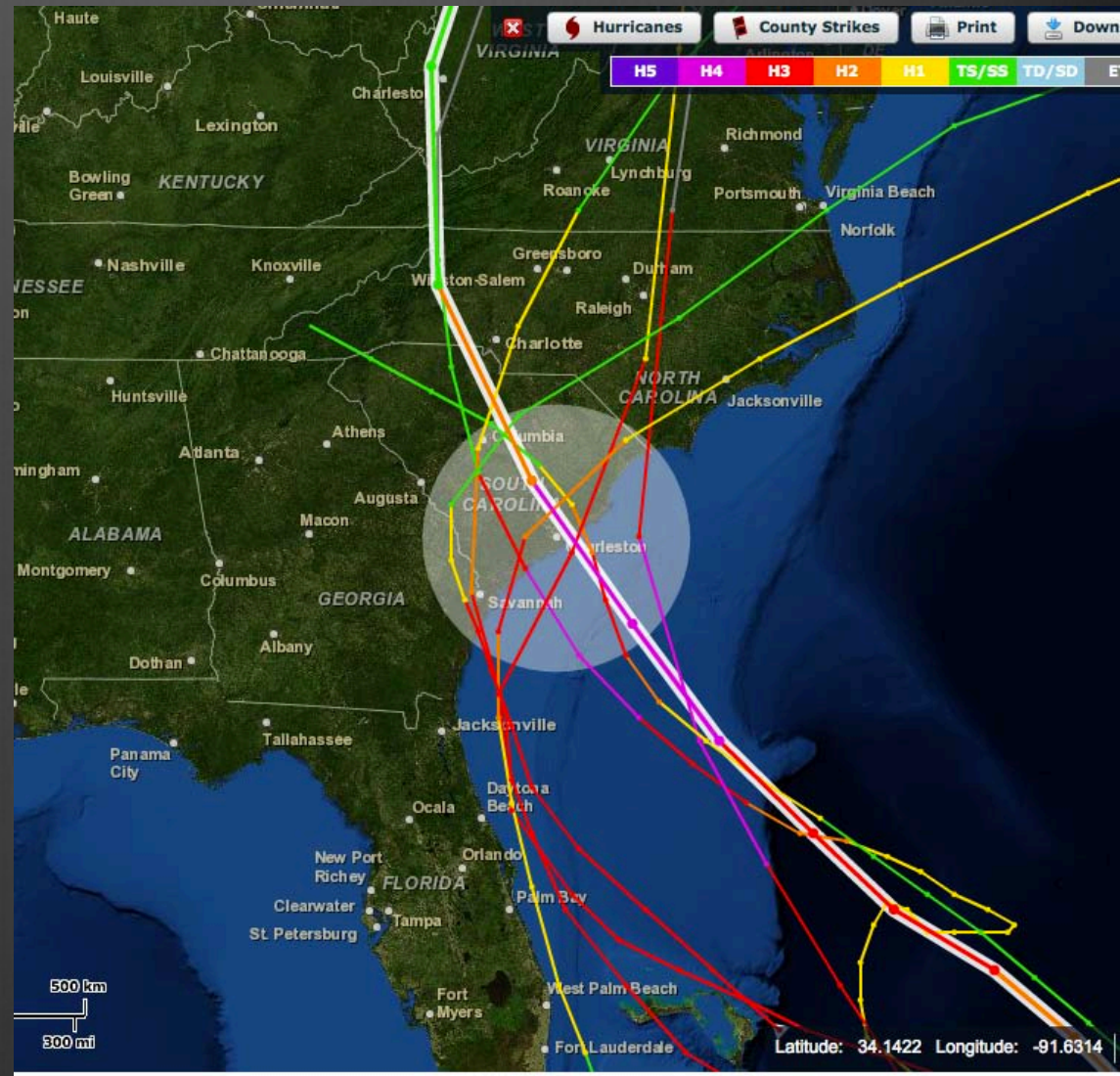


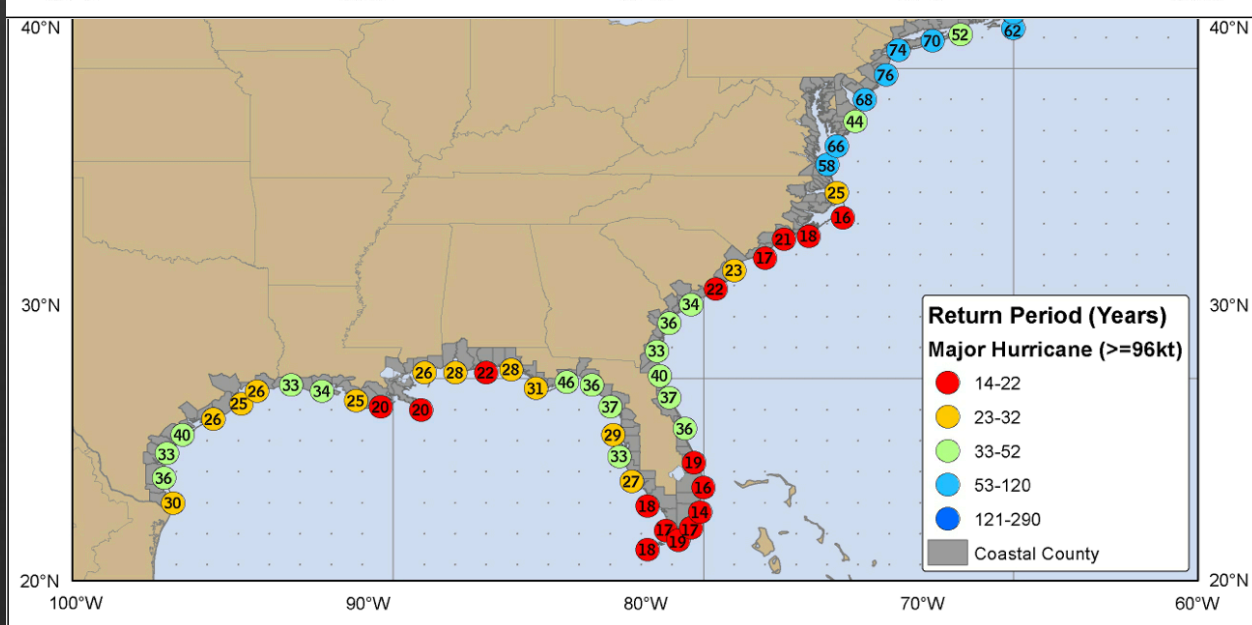
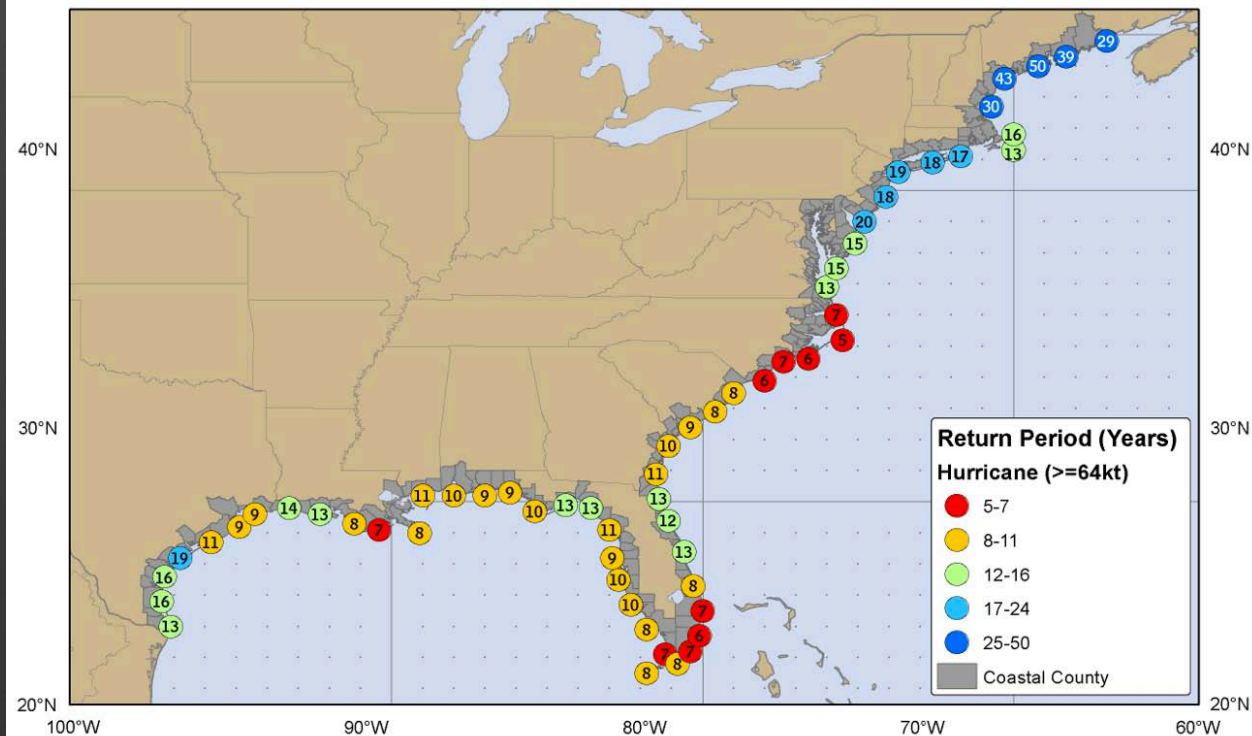
All Hurricanes 1851-2012



Cat 3-4 directly impacting South Carolina

- 1854
- 1885
- 1893
- 1893
- 1916
- Hazel 1954
- Gracie 1959
- Hugo 1989

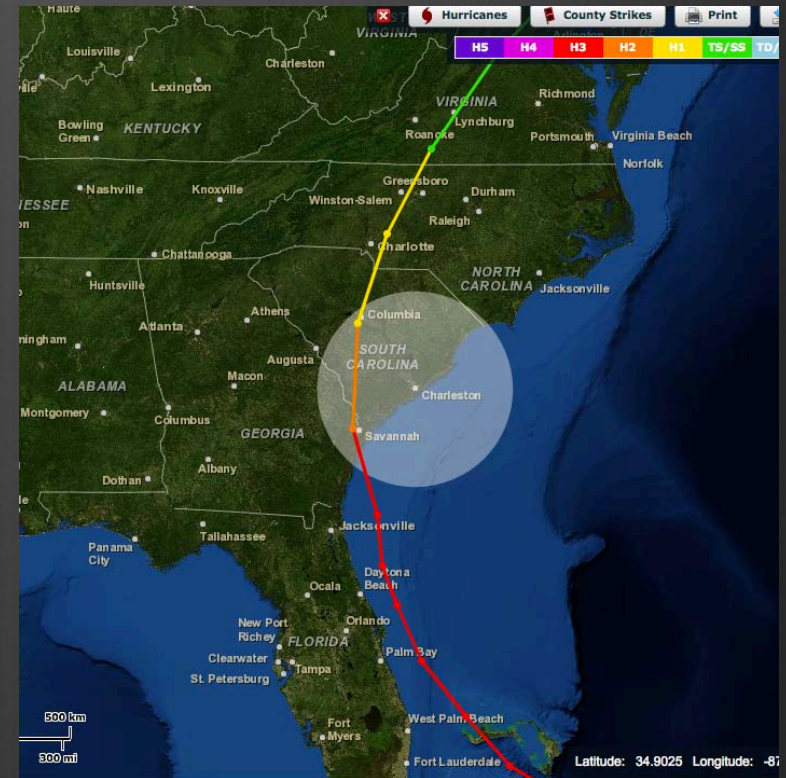
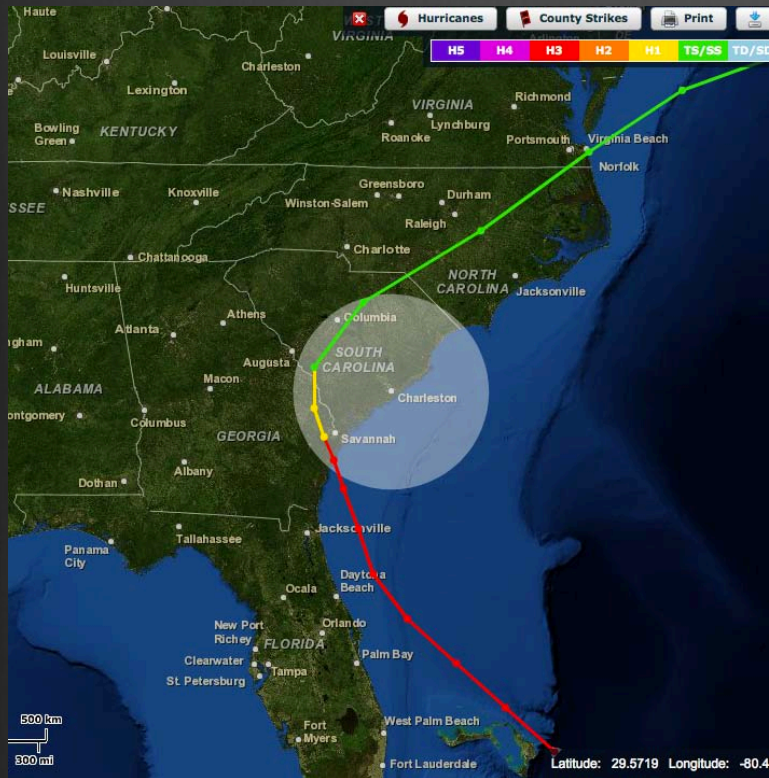




Landfall Savannah

1854

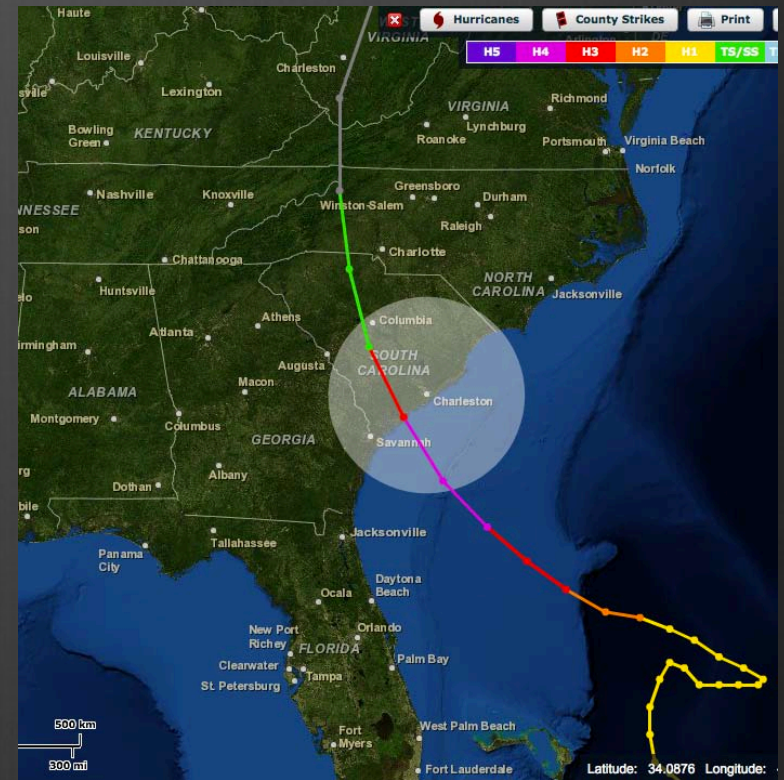
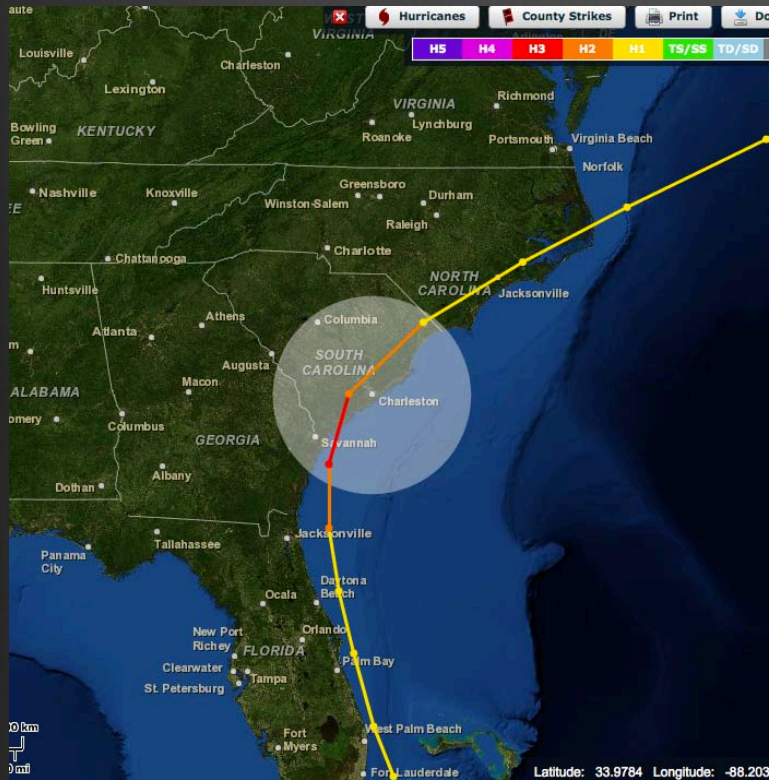
1893 – 5th deadliest
U.S.



Landfall southwest of Charleston

1885

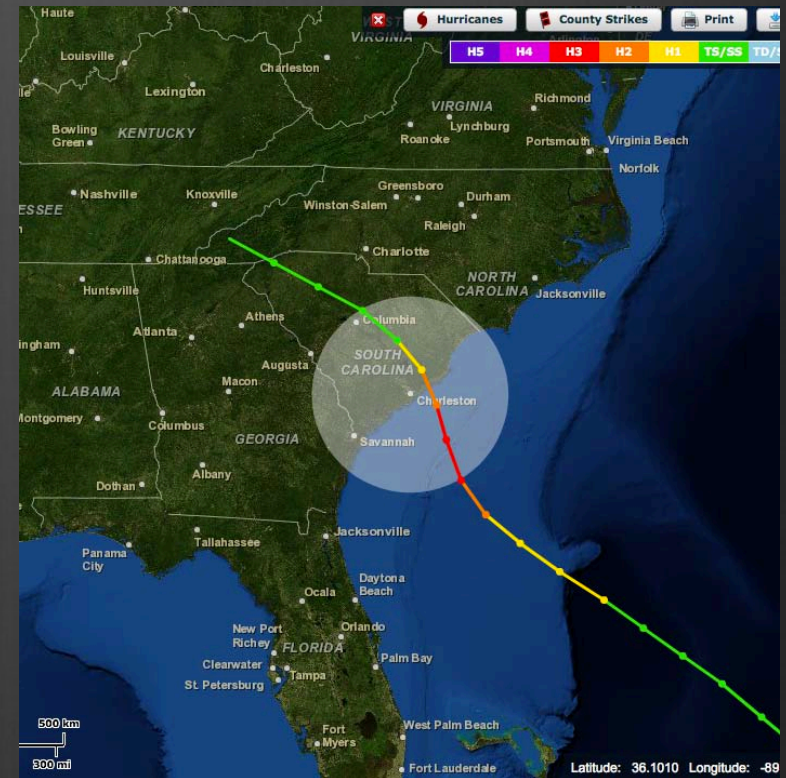
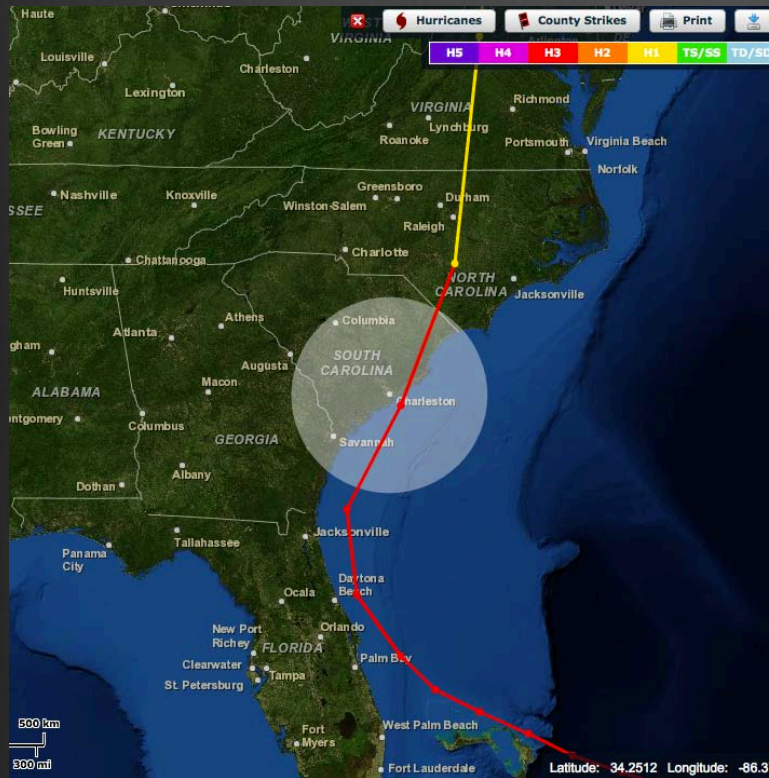
Gracie, 1959



Landfall near but just east of Charleston

1893

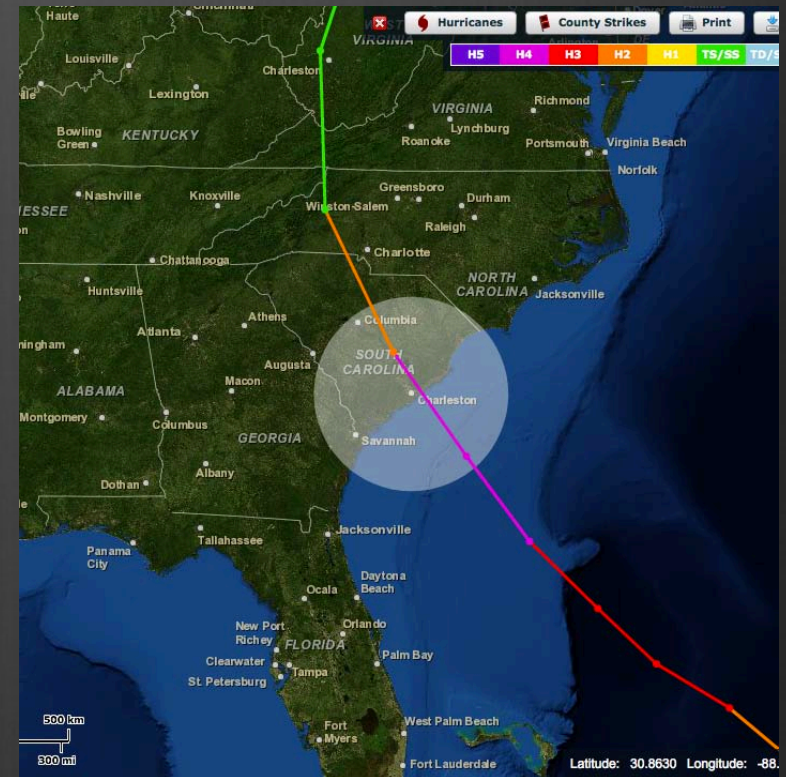
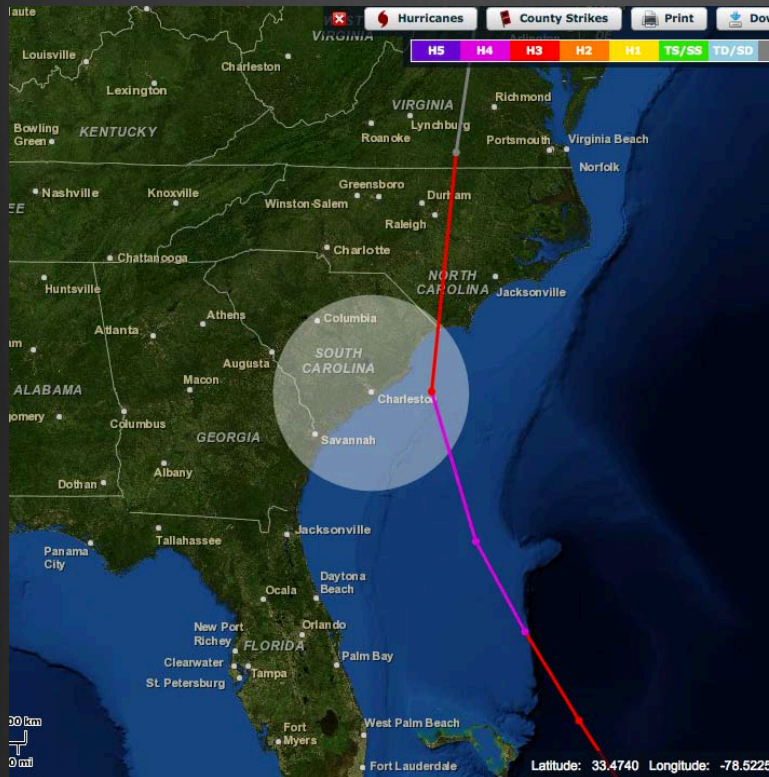
1916



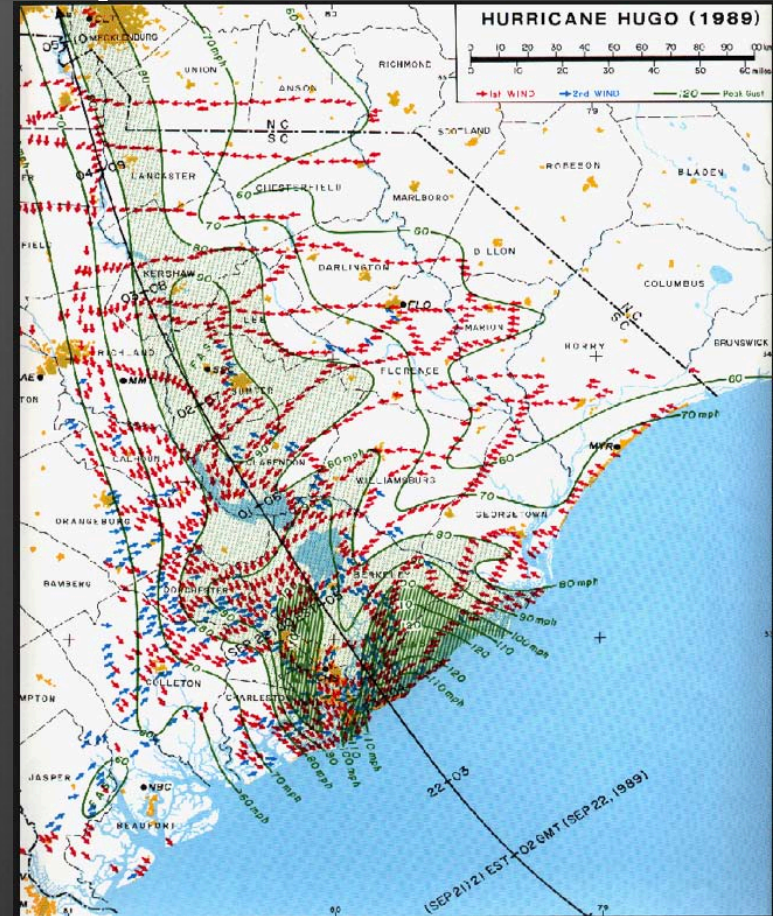
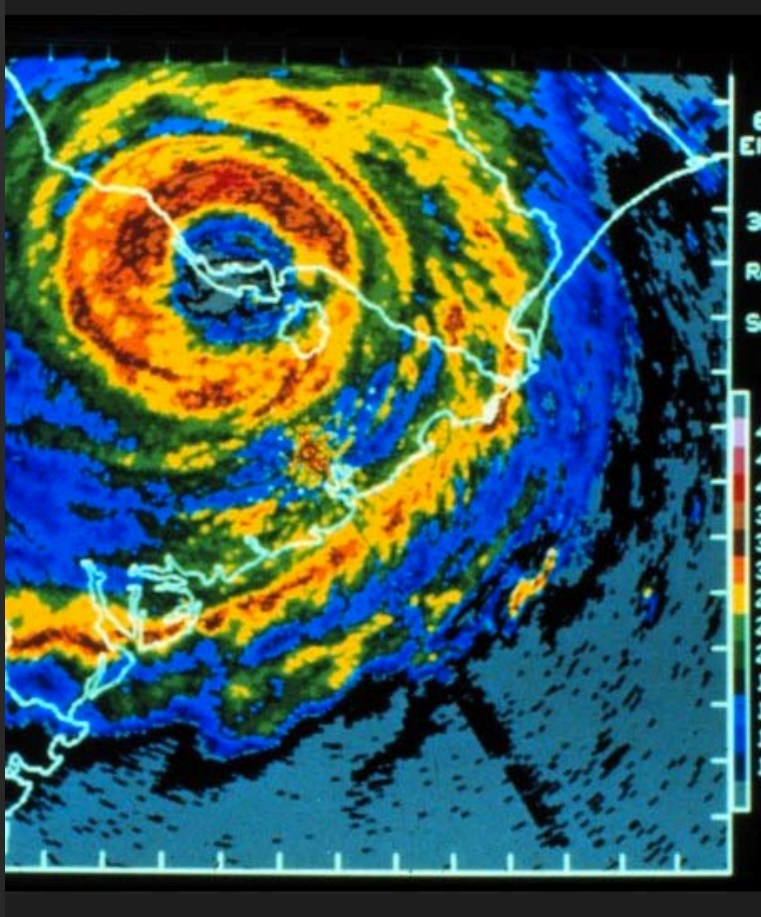
SC storms in top 30 costliest

Hazel 1954

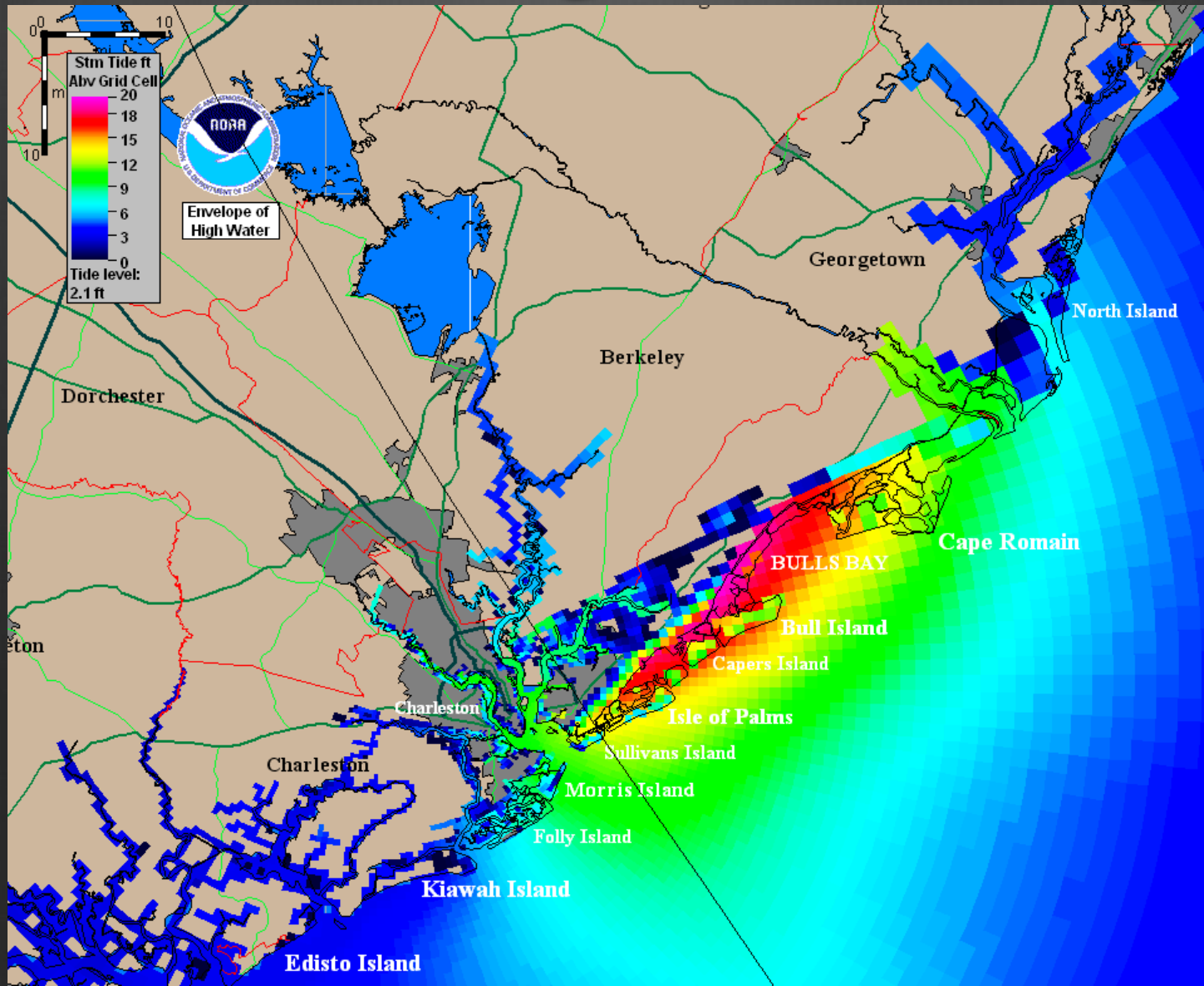
Hugo 1989



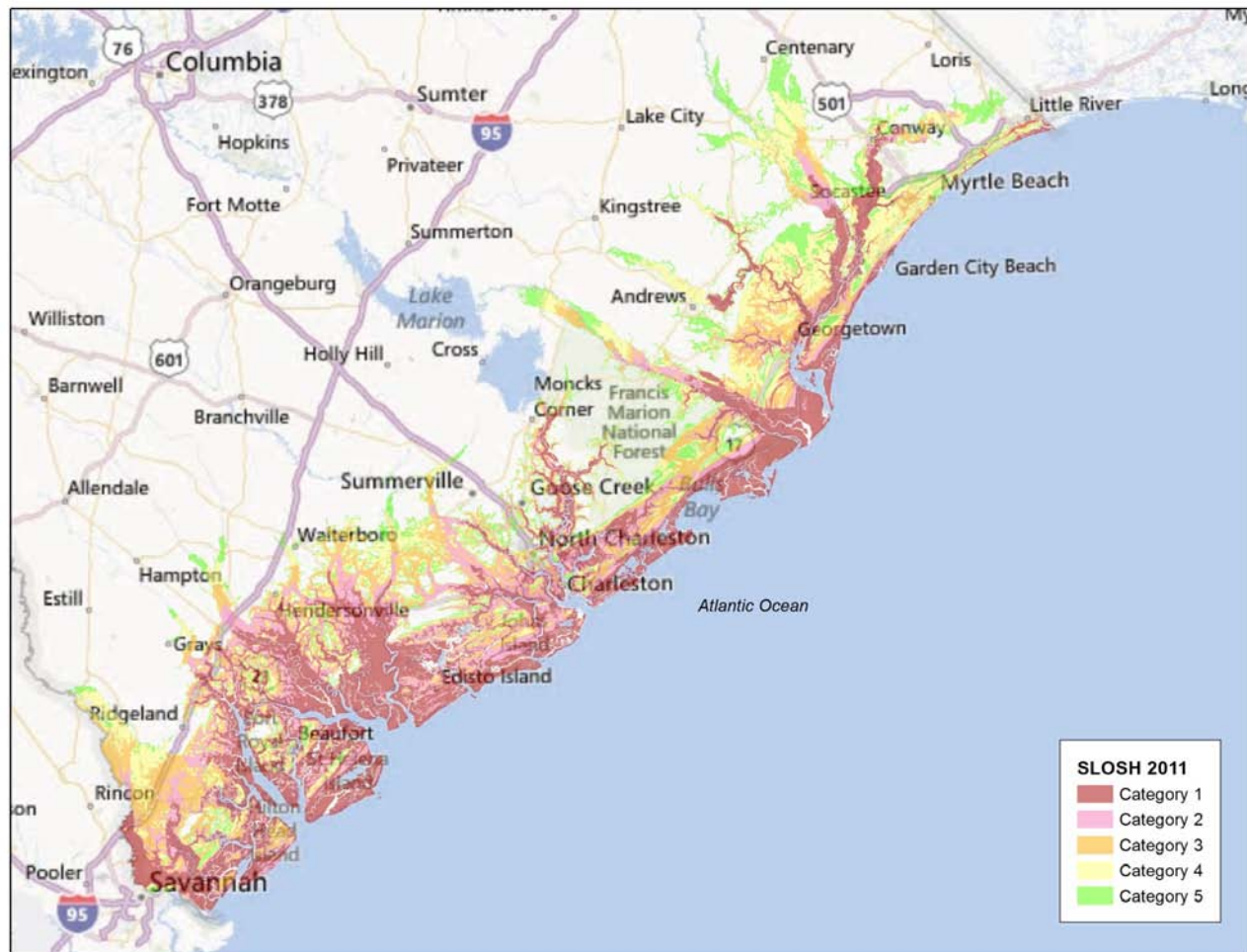
Large eye wall and fast movement lead to significant inland impact



Hurricane Hugo storm surge



Storm Surge Risk



Comparative storm surge risk study post-Katrina

City/metro area	RISK FACTORS			CATEGORY 1 STORM		CATEGORY 5 STORM	
	Hurricane probability	Storm surge probability	Residential density	Financial exposure	Homes affected	Financial exposure	Homes affected
Miami-Dade/Broward/Palm Beach, Fla.	Extreme	High	Extreme	\$19.8 billion	55,368	\$53.6 billion	254,864
Virginia Beach/Norfolk/Newport News, Va.	Medium	High	Medium	\$7.4 billion	39,175	\$39.5 billion	250,254
Tampa/St. Petersburg, Fla.	Extreme	High	High	\$9.4 billion	50,294	\$33 billion	244,016
Houston/Galveston, Texas	Extreme	Extreme	High	\$2.1 billion	18,812	\$20.8 billion	191,709
Charleston, S.C.	Medium	High	Medium	\$8.7 billion	39,156	\$19.9 billion	101,288
New Orleans	High	Extreme	Medium	\$16.6 billion*	85,600	\$17.5 billion	91,487
Jacksonville, Fla.	Extreme	High	High	\$2.3 billion	9,358	\$16.5 billion	106,698
Long Island, N.Y.	Low	Medium	Extreme	\$3.1 billion	95,456	\$11 billion**	367,773
Wilmington, N.C.	Medium	High	Medium	\$1.7 billion	6,917	\$8.2 billion	43,282
Myrtle Beach, S.C.	Medium	High	Medium	\$1.4 billion	8,164	\$6.2 billion	52,278
Corpus Christi, Texas	Extreme	High	Medium	\$828 million	5,274	\$4.7 billion	38,506
South Padre/Brownsville, Texas	Extreme	High	Low	\$183 million	984	\$1.7 billion	24,459
Gulf Shores, Ala.	High	High	Medium	\$932 million	5,485	\$1.2 billion	7,098

*New Orleans data not updated for 100-year hurricane protection system improvements
 **Numbers based on Category 4 hurricane. Assumes Long Island not at risk from a Category 5 hurricane

Source: First American Corporation

THE TIMES-PICAYUNE

2013?

- ⊗ Tropical Atlantic Ocean water warmer than normal
- ⊗ No El Nino forecast
- ⊗ Still in a Multi-decadal active cycle
- ⊗ April forecasts all calling for significantly more active hurricane season
- ⊗ No skill at forecasting *where* a storm might strike